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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/931,685	08/16/2001	Yasuhiro Tanaka	P/1071-1435	3334	
75	90 08/22/2002				
KEATING & BENNETT, LLP 10400 EATON PLACE SUITE 312			EXAMINER		
			BETTENDORF, JUSTIN P		
FAIRFAX, VA 22030			ART UNIT	PAPER NUMBER	
			2817	2817	
		DATE MAILED: 08/22/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

<u></u>		Application No.	Applicant(s)
		09/931,685 TANAKA, YASUHIRO	
	Office Action Summary	Examiner	Art Unit
		Justin P. Bettendorf	2817
Period fo	The MAILING DATE of this communication ap	pears on the cover sheet wit	th the correspondence address
A SH THE - Exte after - If the - If NC - Failu	ORTENED STATUTORY PERIOD FOR REPLEMAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replement of the provision of	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONTER, cause the application to become ABA	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
1)	Responsive to communication(s) filed on	·	
2a)	This action is FINAL . 2b)⊠ T	his action is non-final.	
3) 🗌 Dispositi	Since this application is in condition for allow closed in accordance with the practice under on of Claims	•	• •
·	Claim(s) 1-5 is/are pending in the application		
,	4a) Of the above claim(s) is/are withdra		
_	Claim(s) is/are allowed.		
	Claim(s) <u>1-5</u> is/are rejected.		
<u> </u>	Claim(s) is/are objected to.		
8)	Claim(s) are subject to restriction and/o	or election requirement.	
	The specification is objected to by the Examine	er.	
	The drawing(s) filed on <u>09 January 2002</u> is/are		ted to by the Examiner.
	Applicant may not request that any objection to the		•
11) 🔲 🗀	The proposed drawing correction filed on	_ is: a)□ approved b)□ di	sapproved by the Examiner.
	If approved, corrected drawings are required in re	ply to this Office action.	
12) 🔲 ¯	The oath or declaration is objected to by the Ex	kaminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)🛛	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).
a)[☑ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority document	ts have been received.	
	2. Certified copies of the priority document	s have been received in Ap	plication No
	3. Copies of the certified copies of the prio application from the International Bute the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	· ·
	cknowledgment is made of a claim for domest		\
a)	☐ The translation of the foreign language procedures the company of the foreign language procedures the company of the compan	ovisional application has be	en received.
Attachment	(s) .		
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)
S. Patent and Tra	Idamark Office		<u></u>



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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

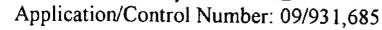
A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by applicant's admitted prior art figure 14 and description thereof (hereinafter "AAPA figure 14).

The AAPA figure 14 discloses a non-reciprocal isolator device for the transmission circuit of a portable phone (i.e. inherently includes reception and transmission circuits) that includes a central electrode assembly 240 having a ferrite 270 with central electrodes 271-273 separated by insulating sheets (i.e. "films") with a metallic case 250. Permanent magnet 260 is shown (see page 1). Electrode 276 is provided along the bottom of the ferrite 270. Figure 14 shows the connecting electrodes for 271-273 located on the sides of the ferrite 270 (i.e. "margins").

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA figure 14 in view of Kubota et al. United States Patent No. 5,644,107.



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The AAPA figure 14, as noted above, discloses a laminated structure of a ferrite substrate 270 with insulating sheets (i.e. "films") and electrodes 271-273. However, the AAPA figure 14 does not disclose a method including cutting an assembly from a ferrite motherboard.

The Kubota et al. reference teaches that a multilayer composite electronic component may be made by the method of starting from a laminated motherboard and slicing along the via holes to form electrodes. This method is considered equivalent to forming individual elements separately (see col. 1, lines 10-60).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention to have manufactured the device of AAPA figure 14 by forming a motherboard laminate and then cutting into individual units as taught by Kubota et al. instead of forming individual units because such a method of manufacturing would have been considered a mere substitution of art-recognized equivalent manufacturing methods that would have advantageously facilitated mass production thereby reducing manufacturing costs, as would have been well known.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Takane et al. United States Patent No. 6,121,851 discloses forming a non-reciprocal device by layering insulating sheets and electrodes with a ferrite.
 - b. Lingel et al. United States Patent Application Publication No. US 2002/0089388

 Al discloses a circulator formed by cutting individual units from a motherboard (see claim 15).

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c. Fields et al. United States Patent No. 4,821,007 teaches forming individual units from a laminated motherboard in order to have economical manufacture of large numbers of identical parts (abstract).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin P. Bettendorf whose telephone number is (703) 308-2780. The examiner can normally be reached on 6:00-3:30 (M-F, 1st Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on (703) 308-4909. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Justin P. Bettendorf Primary Examiner

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jpb

August 12, 2002